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(72) Inventor: **Maragall Marfa, Juan**  
**08034 Barcelona (ES)**

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(74) Representative: **Flaccus, Rolf-Dieter, Dr.**  
**Patentanwalt**  
**Bussardweg 10**  
**50389 Wesseling (DE)**

(71) Applicant: **Maragall Marfa, Juan**  
**08034 Barcelona (ES)**

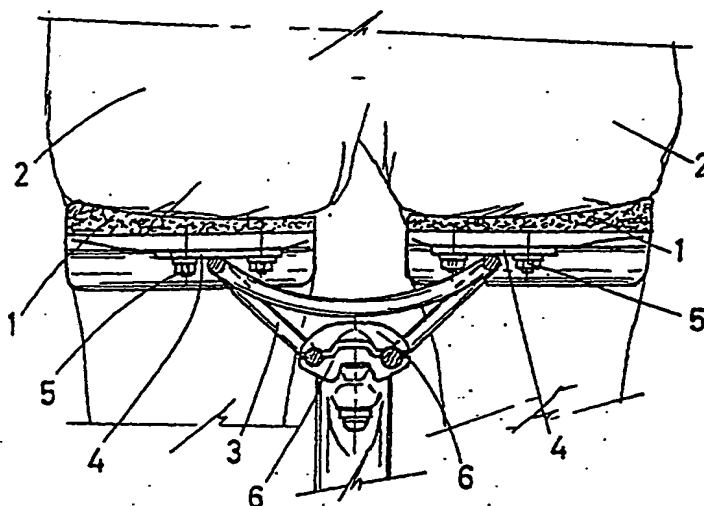
(54) **IMPROVED BICYCLE SADDLE**

(57) **IMPROVED BICYCLE SADDLE**

Improved bicycle saddle consisting of two anatomic supports (1) that are separated from one another and intended for receiving the buttocks (2) of the cyclist, said separation between the supports (1) being determined by a bridge (3) pointing downward and fixed with the aid

of two platens (4) to the lower area of the corresponding supports (1) using conventional fixing means (5). The lower section of said bridge is fixed by means of the usual clamp (6) to the corresponding axle (7) that holds the saddle thereby making it possible the saddle in various positions.

**FIG. 2**



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**Description****PURPOSE**

[0001] The purpose of this request for Patent is an improved bicycle seat, which provides the function for which it intended with various advantages to be described later on, apart from others inherent to its organization and constitution.

**HISTORY**

[0002] At present and as a reference to the state-of-the art, it should be mentioned that the actual bicycle seats are made of bodies consisting of a basically triangular-shaped part on which the buttocks and the intermediate zone of the rider rest.

**DESCRIPTION OF THE INVENTION**

[0003] The improved bicycle seat, purpose of this invention, is characterized by the fact it consists of two anatomical separated supports which receive the respective buttocks of the cyclist, determining a play between supports. At the same time said supports are joined together at the bottom by means of a bridge pointing downwards to determine said play, the upper ends of which are joined through iron plates by means of conventional fastening elements to the respective lower zones of said supports.

[0004] Likewise, said bridge or joining link between supports is mounted on the lower part by means of the corresponding bracket on the pertaining axis that support the seat, permitting it to have a variety of positions.

[0005] Said supports can be cushioned or not and provide more comfort for the rider, especially in the case of cyclists who have undergone prostate surgery as there is no support that applies pressure to the area between buttocks.

[0006] In order to complement the description that follows and to help with a better understanding of its characteristics, attached to this descriptive report is a set of drawings in which the most significant details of the invention been represented in an illustrative and non-limiting way.

**BRIEF DESCRIPTION OF THE DRAWINGS****[0007]**

Figure 1 shows an elevation and part view of a performance of the invention.

Figure 2 shows an elevation view of the seat mounted for use.

Figure 3 shows a section in which the various positions the seat can take are shown.

**DESCRIPTION OF A PREFERRED PERFORMANCE OF THE INVENTION**

[0008] In view of the commented drawings and in accordance with numbering used, a performance example of the invention can be seen. This consists of an improved bicycle seat constituted by two anatomical and separated supports -1- that receive the respective buttocks -2- of the cyclist. Said separation or play between the supports is made by means of a lower link or bridge -3- joining with the downward-curved upper part to determine said gap, and which is fastened through its upper ends by means of iron plates -4- to the lower zone of each support -1- using conventional fastening elements -5-. The lower part of said bridge -3- is fastened by the usual bracket -6- to the corresponding axis -7- that secures the seat and provides various positions, as indicated in figure 3.

[0009] The mentioned supports -1- can be lined with conventional cushioned material.

**Claims**

1. IMPROVED BICYCLE SEAT, **characterized by the** fact that it consists of two anatomical and separated supports (1) to receive the buttocks (2) of the cyclist. This separation between the supports (1) is made by a bridge (3) pointing downwards, which determines said separation, fastening said bridge through iron plates (4) to the lower zone of the respective supports (1) by means of conventional fastening elements (5). Fastening of the lower part of said bridge to the corresponding axis (7) that supports the seat is made by means of the usual bracket (6), thus providing various positions of the seat.
2. IMPROVED BICYCLE SEAT, according to the above claim, **characterized by the** fact that the mentioned supports can be lined with conventional cushioned material.

FIG.1

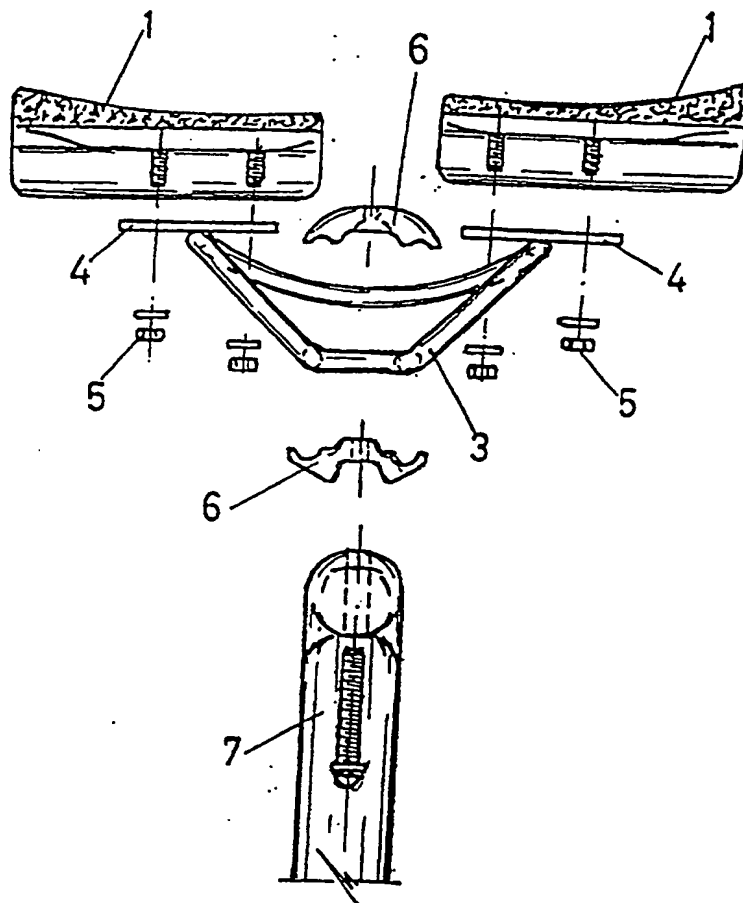


FIG. 2

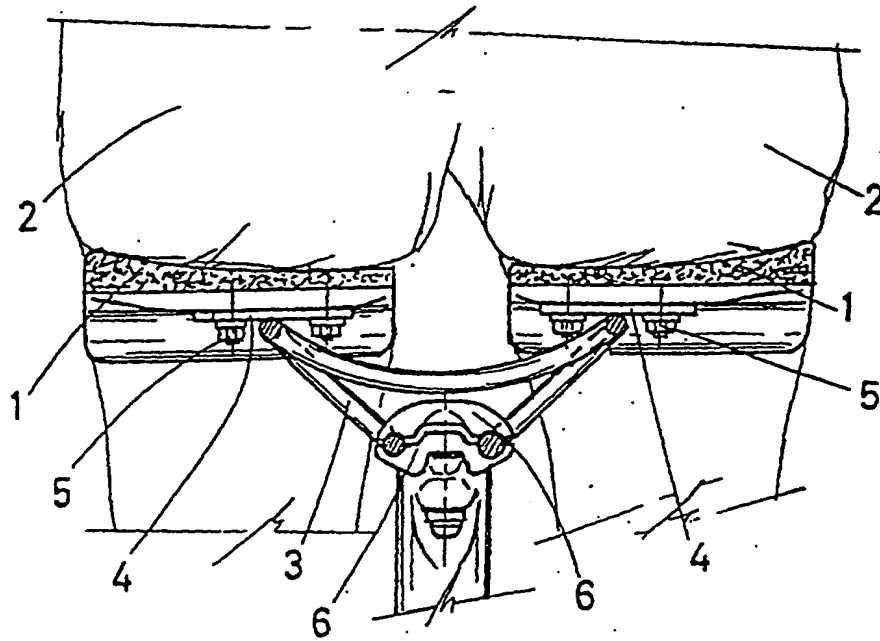
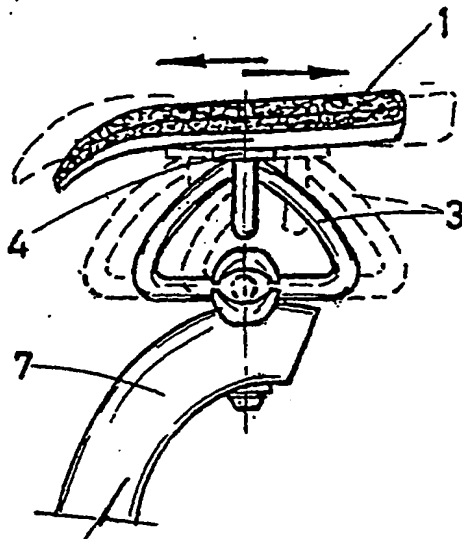


FIG. 3



## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/ES 00/00379

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B62J1/00 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 B62J1+ Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) CIBEPAT, EPODOC, WPI, PAJ		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 564588 A (BURGESS) 28 July 1896 (28.07.96) see the whole document	1,2
X	US 588039 A (J.W. & G.D. UPSON) 10 August 1897, (10.08.97), page 1, lines 39-104; figures	1,2
X	US 4512608 A (ERANI), 23 April 1985 (23.04.85), column 2, line 64-column 5, line 68; figures	1,2
X	US 620620 A (UPSON) 7 March 1899 (07.03.99) figures	1
X	US 4387925 A (BARKER et al), 14 June 1983 (14.06.83), column 2, line 35-column 3, line 30; figure 1-7	1
<input type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 29 December 2000 (29.12.00)		Date of mailing of the international search report 5 January 2001 (05.01.01)
Name and mailing address of the ISA/ S.P.T.O.		Authorized officer Vera Cruz Poblacion Bolano  Telephone No + 34 91 3495385.

Form PCT/ISA/210 (second sheet) (July 1998)

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No  
PCT/ES00/00379

Patent document Cited in search report	Publication date	Patent family member(s)	Publication date
US 564588 A	28.07.1996	NONE	
US 588039 A	10.08.1997	NONE	
US 620620 A	07.03.1999	NONE	
US 4387925 A	14.06.1983	EP 0043278 AB JP 57041274 A CA 1172281 A AT 27584 T DE 317623 D	06.01.1982 08.03.1982 07.08.1984 15.06.1987 09.07.1987
US 4512608 A	23.04.1985	NONE	